

WHAT IS CLAIMED IS:

1. An apparatus having a communication function,  
comprising:

first switching means for switching between first  
5 and second stand-by modes in a stand-by state; and

second switching means for switching between first  
and second communication modes for the communication  
function,

wherein switching by said first switching means  
10 and switching by said second switching means are  
performed in cooperation with each other.

2. The apparatus according to claim 1, wherein  
the first and second stand-by modes have different  
15 consumption powers.

3. The apparatus according to claim 1, wherein  
the first and second communication modes have different  
consumption powers.

20 4. The apparatus according to claim 1, wherein  
while switching by said second switching means is  
performed, switching by said first switching means is  
performed.

25 5. The apparatus according to claim 1, wherein  
when the apparatus communicates with another apparatus

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by using the communication function, switching by said second switching means is performed.

6. The apparatus according to claim 1, wherein  
5 the communication function is a wireless communication function.

7. The apparatus according to claim 1, wherein  
the communication function realizes communications in  
10 conformity with Bluetooth specifications.

8. The apparatus according to claim 5, wherein  
the first communication mode is an active mode of  
Bluetooth specifications and the second communication  
15 mode is one of a park mode, a sniff mode and a hold mode of the Bluetooth specifications.

9. The apparatus according to claim 1, further comprising:  
20 returning means for returning a response to a request from another apparatus to be connected by using the communication function; and  
process switching means for selectively executing  
a first process of notifying the request from the other  
25 apparatus to said returning means and a second process of notifying the request to the returning means for the other apparatus,

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wherein said process switching means switches between the first and second processes in response to switching by said second switching means.

5           10. The apparatus according to claim 9, wherein the second process is executed during the first stand-by mode and is not executed during the second stand-by mode.

10           11. The apparatus according to claim 9, further comprising:  
              judging means for judging whether switching by said first switching means is performed in response to switching by said second switching means,

15           wherein said process switching means switches between the first and second processes in accordance with a judgement by said judging means.

20           12. A method of controlling an apparatus having a communication function, comprising:

              a first switching step of switching between first and second stand-by modes in a stand-by state; and

              a second switching step of switching between first and second communication modes for the communication  
25           function,

              wherein switching by said first switching step and switching by said second switching step are performed

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in cooperation with each other.

13. A storage medium storing a program for  
controlling an apparatus having a communication

5 function, the program comprising:

a first switching step of switching between first  
and second stand-by modes in a stand-by state; and

a second switching step of switching between first  
and second communication modes for the communication

10 function,

wherein switching by said first switching step and  
switching by said second switching step are performed  
in cooperation with each other.

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